January 9, 2002

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| UTILITY | Attorney D | ocket No. | | CPM 00029CIP (3600-328-01 | 1) |
| PATENT APPLICATION | First Inven | tor | | Christopher A. Michaluk | |
| TRANSMITTAL | Title | | | O NIOBIUM BILLETS AND ME S THE SAME | THODS |
| for new nonprovisional applications under 37 CFR 1.53(b)) | Express Ma | ail Label N | lo. | EV041600772US | |
| APPLICATION ELEMENTS PEP chapter 600 concerning utility patent application contents. | ADDRES | SS TO: | Box F | stant Commissioner for Patents Patent Application nington, DC 20231 | 3 |
| Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) | | | | t in duplicate, large table or m (Appendix) | 70 |
| Applicant claims small entity status. See 37 CFR 1.27. | | de and/or Ai | | cid Sequence Submission | 46. |

| | | APPLICA | ATION ELEN | IENTS | | ADD | RESS T | | istant Comn | nissioner for Patents | s |
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| s | ee MP | EP chapter 600 con | | | ontents. | | | Wa | shington, DC | 20231 | |
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| 2. | | Applicant claims s See 37 CFR 1.27. | | 5. | | | icleotide an | | Acid Seque | nce Submission | g 6 |
| 3. | Х | Specification | | otal Pages | 31] | a. | | Computer R | eadable For | m (CRF) | 425 |
| | | Descriptive title o Cross Reference | | ications | | b. | Specific | ation Seque | ence Listing | on: | 70/0 |
| | | Statement Regard Reference to sequence | ding Fed sponso | red R & D | | | i. [| = | M or CD-R (2 | 2 copies); or | 104 |
| | | or a computer pro - Background of th | ogram listing app | pendíx | | _ | ii. L | paper | مادة سماد عاسم | ntity of above copies | ם פ |
| l | | Brief Summary of Brief Description | f the Invention | (if filed) | | <u> </u> | | | | | 5 |
| | | - Detailed Descript - Claim(s) | ion | (| | <u> </u> | | | | CATION PARTS heet & document(s) | \\\ |
| | | - Abstract of the Di | isclosure | | | 9. 10. | 37 C | FR 3.73(b) S | tatement | Power of | " |
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| 4. | X | Drawing(s) (35 U.S | | tal Sheets 9 | = 1 | 11. | | ish Transiat mation Disc | | nt (if applicable) Copies of ID | e e |
| 5. | Oa | th or Declaration | [76 | ital Sheets 2 |]] | 12. | | ement (IDS) | | Citations | |
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| 1 S 12 | ŧ | Copy from (for continu | a prior applicati uation/divisional | on (37 CFR 1.63 (c with Box 18 comp | i)) leted) | 14. | | | Postcard (Mi cifically itemi: | | |
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| | | name | | cation, see 37 CFR | (5) | 16. | Noni | oublication I | Request und | er 35 U.S.C. 122 attach form PTO/SE | \n_r |
| | | 1.03(| (d)(2) and 1 33(b). | | | | | equivalent | , | | |
| 6. | | Application Data S | Sheet. See 37 C | FR 1.76 | | 17. | Othe | | | | ****** |
| | | CONTINUING APPL Application Data S | | | and supp | ly the re | quisite info | rmation belo | ow and in a p | oreliminary amendm | ent, |
| For | in an | Continuation | Divisional | Continuation- | in-part (CiP) | | of prior app | lication No | | | |
| H | | plication information | Examiner | | | | Group Art | Unit | | | |
| is | conside | TINUATION or DIVISION Pered a part of the disclopilised upon when a por | sure of the accom | panying continuation | or divisio | nal applic | ation and is | hereby incorp | oath or declar corated by refe | ation is supplied und erence. The incorpor | er Box 5b, ation <u>can</u> |
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| | Vame | (Print/type) | Luke A. Kilyl | < D | | DA R | egistration i | No. (Attome | ey/Agent) | 33,251 | |

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FEE TRANSMITTAL for FY 2002

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TOTAL AMOUNT OF PAYMENT (\$) 2,156.00

| | Complete if Known |
|----------------------|----------------------------|
| Application Number | To Be Assigned |
| Filing Date | January 9, 2002 |
| First Named Inventor | Christopher A. Michaluk |
| Examiner Name | To Be Assigned |
| Group Art Unit | To Be Assigned |
| Attorney Docket No. | CPM 00029CIP (3600-328-01) |

| METHOD OF PAYMENT | | | | FEE | CALCULATION (continued) | |
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| The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to: | 3. | ADDIT | | | S | |
| Deposit Account Number | Fee Code | Entity Fee | | Entity Fee | | Fee Paid |
| Deposit Account | 105 | 1.7 | | (♥) 65 | | Fee Paru |
| Name Charge Any Additional Fee Required Under 37 CFR 1 16 and 1 17 | 127 | | 227 | 25 | Surcharge late provisional filing fee or cover | |
| Applicant claims small entity status See 37 CFR 1 27 | 139 | | 139 | 130 | sheet | |
| 2. Payment Enclosed: | 147 | 7 2,520 | 147 | 2,520 | - ' | |
| Check Credit Card Money Order Other | 112 | -, | 112 | 920* | Requesting publication of SIR prior to Examiner action | |
| FEE CALCULATION | 113 | 3 1,840* | 113 | 1,840* | Requesting publication of SIR after Examiner action | |
| 1. BASIC FILING FEE | 115 | 110 | 215 | 55 | Extension for reply within first month | |
| Large Entity Small Entity | 116 | 400 | 216 | 200 | Extension for reply within second month | |
| Fee Fee Fee Fee Description Code (\$) Code (\$) Fee Paid | 117 | 920 | 217 | 460 | Extension for reply within third month | |
| 101 740 201 370 Utility filing fee 740.00 | 118 | 1,440 | 218 | 720 | Extension for reply within fourth month | |
| 106 330 206 165 Design filing fee | 128 | 1,960 | 228 | 980 | Extension for reply within fifth month | |
| 107 510 207 255 Plant filing fee | 119 | 320 | 219 | 160 | Notice of Appeal | |
| 108 740 208 370 Reissue filing fee | 120 | | 220 | 160 | Filing a brief in support of an appeal | |
| 114 160 214 80 Provisional filing fee | 121 | 280 | 221 | 140 | Request for oral hearing | <u> </u> |
| | 138 | 1,510 | 138 | 1,510 | Petition to institute a public use proceeding | — |
| SUBTOTAL (1) (\$) 740.00 | 140 | 110 | 240 | 55 | Petition to revive – unavoidable | |
| 2. EXTRA CLAIM FEES | ·141 | 1,280 | 241 | 640 | Petition to revive – unintentional | |
| Fee from Extra Claims below Fee Paid | 142 | 1,280 | 242 | 640 | Utility issue fee (or reissue) | |
| Total Claims 94 -20**= 74 x 18.00 = 1,332.00 | 143 | 460 | 243 | 230 | Design issue fee | |
| Independent 4 - 3**= 1 X 84.00 = 84.00 | _ | | 244 | ·310 | Plant issue fee | |
| Multiple Dependent | 122 | | 122 | 130 | Petitions to the Commissioner | |
| · | 123 | 50 | 123 | 50 | Processing fee under 37 CFR 1.17(q) | |
| Large Entity Fee Fee Fee Fee Code (\$) Fee Description | 126 | 180 | 126 | 180 | Submission of Information Disclosure Stmt | |
| 103 18 203 9 Claims in excess of 20 | 581 | 40 | 581 | 40 | Recording each patent assignment per property (times number of properties) | |
| 102 84 202 42 Independent claims in excess of 3 | 146 | 740 | 246 | 370 | Filing a submission after final rejection (37 CFR § 1.129(a)) | |
| 104 280 204 140 Multiple dependent claim, if not paid | 149 | 740 | 249 | 370 | For each additional invention to be examined (37 CFR § 1.129(b)) | |
| 109 84 209 42 **Reissue independent claims over original patent | 179 | 740 | 279 | 370 | Request for Continued Examination (RCE) | |
| 110 18 210 9 **Reissue claims in excess of 20 and over original patent | 169 | 900 | 169 | 900 | Request for expedited examination of a design application | |
| SUBTOTAL (2) (\$)1,416.00 | Other f | fee (speci | :ify) _ | | | |
| ** or number previously paid, if greater; For Reissues, see above | *Reduc | ed by Basic | c Filing F | ee Paid | SUBTOTAL (3) (\$) | |

| SUBMITTED BY | | | | Complete (if an | oplicable) | • |
|-------------------|---------------|----------------------------------|---------------------------------------|-----------------|-----------------|---|
| Name (Print/Type) | Luke A. Kilyk | Registration No (Attorney/Agent) | 33,251 | Telephone | (540) 428-1701 | • |
| Signature | - Ale | CKI | | Date | January 9, 2002 | _ |
| | **** | // | · · · · · · · · · · · · · · · · · · · | | , -, | _ |

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| Applicant(s) C | Christopher A. MICHA | LUK | 1 | (00029CIP 0-328-01) |
| Serial No. | Filing Date | Examiner | (300 | Group Art Unit |
| New Appln. | January 9, 2002 | | | |
| Title of Inventi | on: | | | |
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| I hereby certify | that the following corn | respondence: | | |
| Application | ittal (1 page); Utility Pa (31 pages); 9 Sheets Dred Declaration (2 pages) | awings (Figs. 1-2, 3A- | mittal (-B to 9 <i>A</i> | 1 page); A-B); |
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